

Rafael Vales

Junior Software Developer | C# · .NET · Full Stack

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PROFILE

Software developer with three years of education focused on C# and .NET: OOP, MVC architecture, design patterns and SOLID applied to Windows Forms applications. Also a full-stack developer working with Next.js, TypeScript and PostgreSQL: I have built and deployed software for real businesses, including a point-of-sale system that continues operating during connection outages. Direct collaboration with clients and multidisciplinary teams.

TECHNICAL SKILLS

Languages: C# (the primary language of my degree program), TypeScript, JavaScript, SQL, Swift, Java

Frontend: Next.js (App Router), React, Tailwind CSS, Zustand, HTML5, CSS3

Backend and data: Node.js, REST APIs, PostgreSQL, Supabase (Row-Level Security, RPC functions, triggers), Prisma ORM, IndexedDB (Dexie.js)

Desktop and mobile: Windows Forms (.NET), SwiftUI, SwiftData, MapKit

Architecture and quality: Object-Oriented Programming (OOP), MVC, Strategy, Observer and Singleton patterns, dependency injection, SOLID, Repository, MVVM, DDD, offline-first architecture, unit and mutation testing

Tools: Git, GitHub, Vercel, CI/CD, Jira (Scrum), Claude Code

EXPERIENCE

Web Developer (Internship) — Animal Feed / Los Abuelos Pet Shop

Jun 2025 – Dec 2025

Next.js · TypeScript · Prisma · PostgreSQL · MercadoPago

- Developed the client's ecommerce platform end to end, now in production: catalog, cart, checkout and a seven-state order lifecycle across 10 Prisma models and nine API routes.
- Designed MercadoPago payment processing to prevent duplicate charges: idempotency keys, webhook signature validation and reconciliation with exponential retries.
- Production site: ecommerce-los-abuelos.vercel.app

PROJECTS

C# / .NET Desktop Applications — Windows Forms

2023 – 2026

C# · .NET · Windows Forms · MVC · Repository + JSON · SOLID

- Developed C# management systems using MVC architecture and manual dependency injection: no business logic in forms or controllers, with all composition centralized in Program.cs.
- Applied Strategy (type-specific rules without if/switch), Observer and thread-safe Singleton patterns, alongside SOLID, to introduce new types without changing existing code.
- Implemented persistence with a generic `IRepository<T>` JSON repository, exceptions handled at three levels in the Controller, and interfaces using DataGridView and enum-backed ComboBox controls.

Mercado Williams — Offline-first Point-of-sale System

2026 – Present

Next.js · TypeScript · PostgreSQL (Supabase) · Dexie.js

- Built a POS for a real business with three simultaneous registers that keeps processing sales without internet: locally stored sales, deferred synchronization and identifier reconciliation under race conditions.
- Modeled inventory as an auditable append-only ledger with Row-Level Security; 15+ RPC functions covered by 300+ tests, 100+ mutation tests and 6,000+ simulated network-failure scenarios.

Dermatology Clinic Management System — Tech Lead

2026 – Present

Next.js · TypeScript · Prisma · Supabase · Scrum / Jira

- Technical lead of a four-person team for a real clinic: gathered requirements with the client and designed the data model (14 tables with Row-Level Security) for appointments with temporary holds and medical records with images.

Dividamos — Shared Expenses App

Dec 2024 – Present

Next.js · React · TypeScript · Supabase · Prisma

- Production app with real users: nine REST routes, a relational schema with five models and a custom greedy algorithm that minimizes transfers to settle debts. dividamosmdp.vercel.app

TripPilot — Native iOS Travel Planning App

2025 – Present

Swift · SwiftUI · SwiftData · MapKit

- Four-layer DDD architecture with MVVM, a heuristic itinerary planning engine, six integrated external APIs and 86 automated tests.

EDUCATION

Higher Technical Degree in Software Development — Instituto Superior IDRA

2023 – 2026

LANGUAGES

English: Advanced (C1), with work experience in the United States. | **Spanish:** Native